

**THE UNIVERSITY OF HONG KONG  
LI KA SHING FACULTY OF MEDICINE**

**Master of Molecular and Diagnostic Pathology  
Molecular Pathology, Course 5**

**MMDP7019 Applications of Emerging Technologies for Genetic Testing**  
Course Coordinators: Professor CW Lam & Professor Ui-Soon Khoo

Date	Time	No. of hour(s)	Topic	Teaching mode	Teacher	Dept	Venue	
10/08/2024 (Saturday)	<b>Session 1</b>							
	8:50 – 9:00 am		Briefing by the course coordinator		Prof CW Lam	Path, HKU	QMH (T06-035)	
	9:00 – 10:00 am	1	Clinical Bioinformatics for complex disease		Dr Clara Tang	Surgery, HKU		
	10:30 - 12:00 pm	1.5	Polygenic risk scores		Prof Pak Sham	HKU		
	Lunch Break							
	13:00 - 14:30 pm	1.5	Bioinformatics for mutation reporting in chemical pathology		Dr Felix Wong	Path, QMH		
	14:30 - 16:00 pm	1.5	Next-generation Sequencing – clinical applications	Tutorial	Dr Felix Wong	Path, QMH		
17/08/2024 (Saturday)	<b>Session 2</b>							
	9:00 – 10:30 am	1.5	Clinical application of NGS for solid tumors		Dr Anthony Lo	Path, QMH	QMH (T06-035)	
	10:30 - 12:00 am	1.5	Clinical bioinformatics for leukaemia genomics		Dr Alvin IP	Path, QMH		
	12:00 - 12:30 pm	0.5	Third-generation sequencing: clinical application and bioinformatic considerations.		Dr Alvin IP	Path, QMH		
	Lunch Break							
	13:30 - 15:00 pm	1.5	Newborn screening for Spinal Muscular Atrophy and Severe combined Immunodeficiency		Dr Chloe Mak	Path, HKCH		
	15:00 - 16:00 pm	1	Newborn screening for inborn errors of metabolism		Dr Chloe Mak	Path, HKCH		
16:00 - 16:30 pm	0.5	Inherited cardiomyopathy and arrhythmia disorders	Tutorial	Dr Chloe Mak	Path, HKCH			
24/08/2024 (Saturday)	<b>Session 3</b>							
	9:00 – 10:30 am	1.5	Mass spectrometry (protein/metabolite) for drug discovery		Prof Clive Chung	Path, HKU	QMH (T06-035)	
	10:30 - 12:00 pm	1.5	CRISPR technology for treatment and diagnosis		Prof Jack Wong	Path, HKU		
Feb 2024 lab visit week		2	Visit to Center for Panomic Science					
Feb 2024 lab visit week		2	Visit to Human Genome Project					